



AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently amended) A method of data packet handling in packet-switched data transmission between a mobile station and a wireless telecommunication network, wherein a telecommunication protocol of said wireless telecommunication network comprises a link control layer for handling control information relating to the data packet transmission and a radio link layer for transmitting the data packets as data units and for acknowledging the transmission between the mobile station and the wireless telecommunication network, the method comprising:

receiving a plurality of radio link layer data units on the radio link layer;

transferring a number of the radio link layer data units to the link control layer as link control layer data units;

detecting a high load situation caused by the transfer of the link control layer data units to the link control layer; and

intermitting the operation of the radio link layer until a number of link control layer data units has been acknowledged by the link control layer.

2. (Original) A method as claimed in claim 1, further comprising

setting a first threshold value for limiting the number of link control layer data units transferred to the link control layer without acknowledgement from the link control layer;

setting a second threshold value for the number of the link control layer data units to be acknowledged by the link control layer; and

if the number of unacknowledged link control layer data units equals to the number defined by the first threshold value,

intermitting the transfer of the link control layer data units, until a number of link control layer data units, defined by the second threshold value, has been acknowledged by the link control layer.

3. (Original) A method as claimed in claim 2, further comprising
performing said acknowledgement from the link control layer in response to
transferring said link control layer data units to an upper protocol layer.
4. (Original) A method as claimed in claim 3, wherein the upper protocol layer is a
convergence protocol layer.
5. (Original) A method as claimed in claim 1, further comprising
in response to intermitting the transfer of the link control layer data units to the link
control layer,
intermitting the acknowledgements of radio link layer data units on radio link layer
between the mobile station and the wireless telecommunication network.
6. (Original) A method as claimed in claim 1, further comprising
including an acknowledgement request in at least one link control layer data unit to
be transferred to the link control layer, the transferring of which link control layer data unit
starts a timer; and
in response to said timer expiring before an acknowledgement is received from the
link control layer,
intermitting the transfer of the link control layer data units, until acknowledgement
of a predefined number of link control layer data units is received from the link control
layer.
7. (Original) A method as claimed in claim 6, further comprising
in response to intermitting the transfer of the link control layer data units to the link
control layer,
intermitting the acknowledgements of radio link layer data units on radio link layer
between the mobile station and the wireless telecommunication network.

8. (Currently amended) A packet-switched telecommunication system comprising: a mobile station and a wireless telecommunication network, wherein

a telecommunication protocol of said telecommunication system comprises a link control layer for handling control information relating to the data packet transmission and a radio link layer for transmitting the data packets as data units and for acknowledging the transmission between the mobile station and the wireless telecommunication network,

the network is arranged to transmit a plurality of radio link layer data units to the mobile station on the radio link layer;

the mobile station is arranged to transfer a number of the radio link layer data units to the link control layer as link control layer data units;

detect a high load situation caused by the transfer of the link control layer data units to the link control layer; and

intermit the operation of the radio link layer until a number of link control layer data units has been acknowledged by the link control layer.

9. (Currently amended) A mobile station of a telecommunication system, wherein a packet-switched telecommunication protocol of said telecommunication system comprises a link control layer for handling control information relating to the data packet transmission and a radio link layer for transmitting the data packets as data units and for acknowledging the transmission between the mobile station and a wireless telecommunication network, the mobile station comprising:

a receiver ~~for receiving~~configured to receive a plurality of radio link layer data units on the radio link layer from the wireless telecommunication network;

~~means for transferring~~a control unit configured to transfer a number of the radio link layer data units to the link control layer as link control layer data units;

~~means for detecting~~the control unit configured to detect a high load situation caused by the transfer of the link control layer data units to the link control layer; and

~~means for intermitting~~the control unit configured to intermit the operation of the radio link layer until a number of link control layer data units has been acknowledged by the link control layer.

10. (Currently amended) A mobile station as claimed in claim 9, wherein the control unit is further ~~comprising~~configured to

~~means for defining~~define a first threshold value for limiting the number of link control layer data units transferred to the link control layer without acknowledgement from the link control layer;

~~means for defining~~define a second threshold value for the number of the link control layer data units to be acknowledged by the link control layer; and

~~means,~~responsive to the number of unacknowledged link control layer data units being equal to the number defined by the first threshold value, ~~for intermitting~~intermit the transfer of the link control layer data units, until a number of link control layer data units, defined by the second threshold value, has been acknowledged by the link control layer.

11. (Currently amended) A mobile station as claimed in claim 10, wherein the control unit is further ~~comprising~~configured to

~~means for performing~~perform said acknowledgement from the link control layer in response to transferring said link control layer data units to an upper protocol layer.

12. (Original) A mobile station as claimed in claim 11, wherein the upper protocol layer is a convergence protocol layer.

13. (Currently amended) A mobile station as claimed in claim 9, wherein the control unit is further ~~comprising~~configured

~~means,~~responsive to intermitting the transfer of the link control layer data units to the link control layer, ~~for intermitting~~to intermit the acknowledgements of radio link layer data units on radio link layer between the mobile station and the wireless

telecommunication network.

14. (Currently amended) A mobile station as claimed in claim 9, further comprising a timer, the start of which is responsive to a transfer of a link control layer data unit including an acknowledgement request to the link layer; and

~~means for transferring~~ wherein the control unit is further configured to transfer a number of the link control layer data units to the link control layer, at least one link control layer data unit including an acknowledgement request[[:]] and

~~means for intermitting~~ to intermit the transfer of the link control layer data units, if said timer expires before an acknowledgement is received from the link control layer, until acknowledgement of a predefined number of link control layer data units is received from the link control layer.

15. (Currently amended) A mobile station as claimed in claim 14, wherein the control unit is further comprising ~~configured~~

~~means,~~ responsive to intermitting the transfer of the link control layer data units to the link control layer, ~~for intermitting~~ to intermit the acknowledgements of radio link layer data units on radio link layer between the mobile station and the wireless telecommunication network.

16. (Currently amended) A computer readable storage medium containing a computer software product, suitable for execution in a mobile station of a telecommunication system, wherein a packet-switched telecommunication protocol of said telecommunication system comprises a link control layer for handling control information relating to the data packet transmission and a radio link layer for transmitting the data packets as data units and for acknowledging the transmission between the mobile station and a wireless telecommunication network, the computer software product comprising:

softwarea program code for transferring a number of the radio link layer data units, received from the wireless telecommunication network, to the link control layer as link control layer data units;

softwarea program code for detecting a high load situation caused by the transfer of the link control layer data units to the link control layer; and

softwarea program code for intermitting the operation of the radio link layer until a number of link control layer data units has been acknowledged by the link control layer.

17. (Currently amended) A computer readable storage medium containing a computer software product as claimed in claim 16, further comprising

softwarea program code for defining a first threshold value for limiting the number of link control layer data units transferred to the link control layer without acknowledgement from the link control layer;

softwarea program code for defining a second threshold value for the number of the link control layer data units to be acknowledged by the link control layer; and

softwarea program code, responsive to the number of unacknowledged link control layer data units being equal to the number defined by the first threshold value, for intermitting the transfer of the link control layer data units, until a number of link control layer data units, defined by the second threshold value, has been acknowledged by the link control layer.

18. (Currently amended) A computer readable storage medium containing a computer software product as claimed in claim 17, further comprising

softwarea program code for performing said acknowledgement from the link control layer in response to transferring said link control layer data units to an upper protocol layer.

19. (Currently amended) A computer readable storage medium containing a computer software product as claimed in claim 16, further comprising

softwarea program code, responsive to intermitting the transfer of the link control layer data units to the link control layer, for intermitting the acknowledgements of radio link layer data units on radio link layer between the mobile station and the wireless telecommunication network.

20. (Currently amended) A computer readable storage medium containing a computer software product as claimed in claim 16, further comprising

a timer carried out as softwarea program code, the start of which is responsive to a transfer of a link control layer data unit including an acknowledgement request to the link layer;

softwarea program code for transferring a number of the radio link layer data units, received from the wireless telecommunication network, to the link control layer as link control layer data units, at least one link control layer data unit including an acknowledgement request; and

softwarea program code, responsive to expiration of said timer before an acknowledgement is received from the link control layer, for intermitting the transfer of the link control layer data units, until acknowledgement of a predefined number of link control layer data units is received from the link control layer.

21. (Currently amended) A computer readable storage medium containing a computer software product as claimed in claim 20, further comprising

softwarea program code, responsive to intermitting the transfer of the link control layer data units to the link control layer, for intermitting the acknowledgements of radio link layer data units on radio link layer between the mobile station and the wireless telecommunication network.